

1
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<110> Gentz, Reiner
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Ser Leu Leu Cys Leu Val Leu Ala Leu Pro Ala Leu Leu Pro Val Pro
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Ala Val Arg Gly Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala
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gag aca ggg gag cgg ctg gtg tgc gcc cag tgc ccc cca ggc acc ttt 195
Glu Thr Gly Glu Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe
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Val Gln Arg Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys
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Pro Pro Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg
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Tyr Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Ala Arg Ala Cys
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cac gcc acc cac aac cgt gcc tgc cgc tgc cgc acc ggc ttc ttc gcg 387
His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala
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His Ala Gly Phe Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly
125 130 135

gtg att gcc ccg ggc acc ccc agc cag aac acg cag tgc cag ccg tgc 483
Val Ile Ala Pro Gly Thr Pro Ser Gln Asn Thr Gln Cys Gln Pro Cys
140 145 150

ccc cca ggc acc ttc tca gcc agc agc tcc agc tca gag cag tgc cag 531
Pro Pro Gly Thr Phe Ser Ala Ser Ser Ser Ser Ser Glu Gln Cys Gln
155 160 165

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Pro His Arg Asn Cys Thr Ala Leu Glu Leu Ala Leu Asn Val Pro Gly
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tct tcc tcc cat gac acc ctg tgc acc agc tgc act ggc ttc ccc ctc 627
Ser Ser Ser His Asp Thr Leu Cys Thr Ser Cys Thr Gly Phe Pro Leu
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agc acc agg gta cca gga gct gag gag tgt gag cgt gcc gtc atc gac 675
Ser Thr Arg Val Pro Gly Ala Glu Glu Cys Glu Arg Ala Val Ile Asp
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Phe Val Ala Phe Gln Asp Ile Ser Ile Lys Arg Leu Gln Arg Leu Leu
220 225 230

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Gln	Ala	Leu	Glu	Ala	Pro	Glu	Gly	Trp	Gly	Pro	Thr	Pro	Arg	Ala	Gly	
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cgc	gcg	gcc	tgt	cag	ctg	aag	ctg	cgt	cgg	cgg	ctc	acg	gag	ctc	ctg	819
Arg	Ala	Ala	Leu	Gln	Leu	Lys	Leu	Arg	Arg	Arg	Leu	Thr	Glu	Leu	Leu	
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Gly	Ala	Gln	Asp	Gly	Ala	Leu	Leu	Val	Arg	Leu	Leu	Gln	Ala	Leu	Arg	
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gtg	gcc	agg	atg	ccc	ggg	ctg	gag	cgg	agc	gtc	cgt	gag	cgc	ttc	ctc	915
Val	Ala	Arg	Met	Pro	Gly	Leu	Glu	Arg	Ser	Val	Arg	Glu	Arg	Phe	Leu	
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Pro	Val	His														
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Thr	Pro	Thr	Tyr	Pro	Trp	Arg	Asp	Ala	Glu	Thr	Gly	Glu	Arg	Leu	Val	
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Cys	Ala	Gln	Cys	Pro	Pro	Gly	Thr	Phe	Val	Gln	Arg	Pro	Cys	Arg	Arg	
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Asp	Ser	Pro	Thr	Thr	Cys	Gly	Pro	Cys	Pro	Pro	Arg	His	Tyr	Thr	Gln	
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Phe	Trp	Asn	Tyr	Leu	Glu	Arg	Cys	Arg	Tyr	Cys	Asn	Val	Leu	Cys	Gly	
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Glu	Arg	Glu	Glu	Glu	Ala	Arg	Ala	Cys	His	Ala	Thr	His	Asn	Arg	Ala	
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His	Ala	Ser	Cys	Pro	Pro	Gly	Ala	Gly	Val	Ile	Ala	Pro	Gly	Thr	Pro	
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Ser</																

145 150 155 160
 Ser Ser Ser Ser Ser Glu Gln Cys Gln Pro His Arg Asn Cys Thr Ala
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 Leu Gly Leu Ala Leu Asn Val Pro Gly Ser Ser Ser His Asp Thr Leu
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 Cys Thr Ser Cys Thr Gly Phe Pro Leu Ser Thr Arg Val Pro Gly Ala
 195 200 205
 Glu Glu Cys Glu Arg Ala Val Ile Asp Phe Val Ala Phe Gln Asp Ile
 210 215 220
 Ser Ile Lys Arg Leu Gln Arg Leu Leu Gln Ala Leu Glu Ala Pro Glu
 225 230 235 240
 Gly Trp Gly Pro Thr Pro Arg Ala Gly Arg Ala Ala Leu Gln Leu Lys
 245 250 255
 Leu Arg Arg Arg Leu Thr Glu Leu Leu Gly Ala Gln Asp Gly Ala Leu
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 Met Arg Ala Leu Glu Gly Pro Gly Leu Ser Leu Leu Cys
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 Leu Val Leu Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly
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 Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu
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 Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro
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Cys	Arg	Arg	Asp	Ser	Pro	Thr	Thr	Cys	Gly	Pro	Cys	Pro	Pro	Arg	His	
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Tyr	Thr	Gln	Phe	Trp	Asn	Tyr	Leu	Glu	Arg	Cys	Arg	Tyr	Cys	Asn	Val	
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ctc	tgc	ggg	gag	cgt	gag	gag	gag	gca	cgg	gct	tgc	cac	gcc	acc	cac	399
Leu	Cys	Gly	Glu	Arg	Glu	Glu	Glu	Ala	Arg	Ala	Cys	His	Ala	Thr	His	
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aac	cgt	gcc	tgc	cgc	tgc	cgc	acc	ggc	ttc	ttc	gcg	cac	gct	ggt	ttc	447
Asn	Arg	Ala	Cys	Arg	Cys	Arg	Thr	Gly	Phe	Phe	Ala	His	Ala	Gly	Phe	
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Cys	Leu	Glu	His	Ala	Ser	Cys	Pro	Pro	Gly	Ala	Gly	Val	Ile	Ala	Pro	
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 Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro Cys Arg Arg
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 Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His Tyr Thr Gln
 65 70 75 80
 Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val Leu Cys Gly
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 Glu Arg Glu Glu Glu Ala Arg Ala Cys His Ala Thr His Asn Arg Ala
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 Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe Cys Leu Glu
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Arg	His	Cys	Leu	Ser	Cys	Ser	Lys	Cys	Arg	Lys	Glu	Met	Gly	Gln	Val
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Glu	Ile	Ser	Ser	Cys	Thr	Val	Asp	Arg	Asp	Thr	Val	Cys	Gly	Cys	Arg
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Lys	Gln	Asn	Thr	Val	Cys	Thr	Cys	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu
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Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys	Lys	Ser	Leu	Glu	Cys	Thr
			180					185					190		
Lys	Leu	Cys	Leu	Pro	Gln	Ile	Glu	Asn	Val	Lys	Gly	Thr	Glu	Asp	Ser
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Leu	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tyr	Arg	Tyr	Gln	Arg	Trp	Lys
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Ser	Lys	Leu	Tyr	Ser	Ile	Val	Cys	Gly	Lys	Ser	Thr	Pro	Glu	Lys	Glu
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Gly	Glu	Leu	Glu	Gly	Thr	Thr	Thr	Lys	Pro	Leu	Ala	Pro	Asn	Pro	Ser
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Phe	Ser	Pro	Thr	Pro	Gly	Phe	Thr	Pro	Thr	Leu	Gly	Phe	Ser	Pro	Val
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Pro	Ser	Ser	Thr	Phe	Thr	Ser	Ser	Ser	Thr	Tyr	Thr	Pro	Gly	Asp	Cys
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Pro	Asn	Phe	Ala	Ala	Pro	Arg	Arg	Glu	Val	Ala	Pro	Pro	Tyr	Gln	Gly
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Ala	Asp	Pro	Ile	Leu	Ala	Thr	Ala	Leu	Ala	Ser	Asp	Pro	Ile	Pro	Asn
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Pro	Leu	Gln	Lys	Trp	Glu	Asp	Ser	Ala	His	Lys	Pro	Gln	Ser	Leu	Asp
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Thr	Asp	Asp	Pro	Ala	Thr	Leu	Tyr	Ala	Val	Val	Glu	Asn	Val	Pro	Pro
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Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
370 375 380

Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
385 390 395 400

Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
405 410 415

Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
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Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
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Pro Ala Pro Ser Leu Leu Arg
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<212> PRT

<213> Homo sapiens

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35 40 45

Thr Ala Gln Met Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys
50 55 60

Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp
65 70 75 80

Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys
85 90 95

Gly Ser Arg Cys Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg
100 105 110

Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu
115 120 125

Ser Lys Gln Glu Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg
130 135 140

Pro Gly Phe Gly Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val
145 150 155 160

Cys Lys Pro Cys Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr
165 170 175

Asp Ile Cys Arg Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly
180 185 190

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Asn Ala Ser Arg Asp Ala Val Cys Thr Ser Thr Ser Pro Thr Arg Ser
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 Met Ala Pro Gly Ala Val His Leu Pro Gln Pro Val Ser Thr Arg Ser
 210 215 220
 Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser
 225 230 235 240
 Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly
 245 250 255
 Asp Phe Ala Leu Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly
 260 265 270
 Leu Leu Ile Ile Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys
 275 280 285
 Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro
 290 295 300
 Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu
 305 310 315 320
 Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser
 325 330 335
 Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly
 340 345 350
 Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser
 355 360 365
 Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile
 370 375 380
 Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln
 385 390 395 400
 Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Pro Ser Glu Ser Pro
 405 410 415
 Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser
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Pro Thr Gly Leu Tyr Thr His Ser Gly Glu Cys Cys Lys Ala Cys Asn		40	45
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Leu Gly Glu Gly Val Ala Gln Pro Cys Gly Ala Asn Gln Thr Val Cys		55	60
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Glu Pro Cys Leu Asp Ser Val Thr Phe Ser Asp Val Val Ser Ala Thr		70	75
65			80
Glu Pro Cys Lys Pro Cys Thr Glu Cys Val Gly Leu Gln Ser Met Ser		85	90
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Ala Pro Cys Val Glu Ala Asp Asp Ala Val Cys Arg Cys Ala Tyr Gly		100	105
			110
Tyr Tyr Gln Asp Glu Thr Thr Gly Arg Cys Glu Ala Cys Arg Val Cys		115	120
			125
Glu Ala Gly Ser Gly Leu Val Phe Ser Cys Gln Asp Lys Gln Asn Thr		130	135
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Val Cys Glu Glu Cys Pro Asp Gly Thr Tyr Ser Asp Glu Ala Asn His		145	150
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Val Asp Pro Cys Leu Pro Cys Thr Val Cys Glu Asp Thr Glu Arg Gln		160	165
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Leu Arg Glu Cys Thr Arg Trp Ala Asp Ala Glu Cys Glu Glu Ile Pro		175	180
			185
Gly Arg Trp Ile Thr Arg Ser Thr Pro Pro Glu Gly Ser Asp Ser Thr		190	195
			200
Ala Pro Ser Thr Gln Glu Pro Glu Ala Pro Pro Glu Gln Asp Leu Ile		205	210
			215
Ala Ser Thr Val Ala Gly Val Val Thr Thr Val Met Gly Ser Ser Gln		220	225
			230
Pro Val Val Thr Arg Gly Thr Thr Asp Asn Leu Ile Pro Val Tyr Cys		235	240
			245
Ser Ile Leu Ala Ala Val Val Val Gly Leu Val Ala Tyr Ile Ala Phe		250	255
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Lys Arg Trp Asn Ser Cys Lys Gln Asn Lys Gln Gly Ala Asn Ser Arg		265	270
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Pro Val Asn Gln Thr Pro Pro Pro Glu Gly Glu Lys Leu His Ser Asp		280	285
			290
Ser Gly Ile Ser Val Asp Ser Gln Ser Leu His Asp Gln Gln Pro His		295	300
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Thr Gln Thr Ala Ser Gly Gln Ala Leu Lys Gly Asp Gly Gly Leu Tyr		310	315
			320

11

325

330

335

Ser Ser Leu Pro Pro Ala Lys Arg Glu Glu Val Glu Lys Leu Leu Asn
340 345 350

Gly Ser Ala Gly Asp Thr Trp Arg His Leu Ala Gly Glu Leu Gly Tyr
355 360 365

Gln Pro Glu His Ile Asp Ser Phe Thr His Glu Ala Cys Pro Val Arg
370 375 380

Ala Leu Leu Ala Ser Trp Ala Thr Gln Asp Ser Ala Thr Leu Asp Ala
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Leu Cys Ser Glu Ser Thr Ala Thr Ser Pro Val
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<213> Homo sapiens

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Val Pro Pro Tyr Arg Ile Glu Asn Gln Thr Cys Trp Asp Gln Asp Lys
35 40 45

Glu Tyr Tyr Glu Pro Met His Asp Val Cys Cys Ser Arg Cys Pro Pro
50 55 60

Gly Glu Phe Val Phe Ala Val Cys Ser Arg Ser Gln Asp Thr Val Cys
65 70 75 80

Lys Thr Cys Pro His Asn Ser Tyr Asn Glu His Trp Asn His Leu Ser
85 90 95

Thr Cys Gln Leu Cys Arg Pro Cys Asp Ile Val Leu Gly Phe Glu Glu
100 105 110

Val Ala Pro Cys Thr Ser Asp Arg Lys Ala Glu Cys Arg Cys Gln Pro
115 120 125

Gly Met Ser Cys Val Tyr Leu Asp Asn Glu Cys Val His Cys Glu Glu
130 135 140

Glu Arg Leu Val Leu Cys Gln Pro Gly Thr Glu Ala Glu Val Thr Asp
145 150 155 160

Glu Ile Met Asp Thr Asp Val Asn Cys Val Pro Cys Lys Pro Gly His
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Phe Gln Asn Thr Ser Ser Pro Arg Ala Arg Cys Gln Pro His Thr Arg
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 Leu Leu Lys Arg His Pro Glu Gly Glu Glu Ser Pro Pro Cys Pro Ala
 260 265 270
 Pro Arg Ala Asp Pro His Phe Pro Asp Leu Ala Glu Pro Leu Leu Pro
 275 280 285
 Met Ser Gly Asp Leu Ser Pro Ser Pro Ala Gly Pro Pro Thr Ala Pro
 290 295 300
 Ser Leu Glu Glu Val Val Leu Gln Gln Gln Ser Pro Leu Val Gln Ala
 305 310 315 320
 Arg Glu Leu Glu Ala Glu Pro Gly Glu His Gly Gln Val Ala His Gly
 325 330 335
 Ala Asn Gly Ile His Val Thr Gly Gly Ser Val Thr Val Thr Gly Asn
 340 345 350
 Ile Tyr Ile Tyr Asn Gly Pro Val Leu Gly Gly Thr Arg Gly Pro Gly
 355 360 365
 Asp Pro Pro Ala Pro Pro Glu Pro Pro Tyr Pro Thr Pro Glu Glu Gly
 370 375 380
 Ala Pro Gly Pro Ser Glu Leu Ser Thr Pro Tyr Gln Glu Asp Gly Lys
 385 390 395 400
 Ala Trp His Leu Ala Glu Thr Glu Thr Leu Gly Cys Gln Asp Leu
 405 410 415

<210> 9
 <211> 335
 <212> PRT
 <213> Homo sapiens

<400> 9
 Met Leu Gly Ile Trp Thr Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala
 1 5 10 15
 Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr Asp Ile Asn Ser
 20 25 30
 Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Thr Val Glu Thr Gln Asn
 35 40 45

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Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His Lys Pro Cys Pro
 50 55 60
 Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn Gly Asp Glu Pro
 65 70 75 80
 Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr Asp Lys Ala His
 85 90 95
 Phe Ser Ser Lys Cys Arg Arg Cys Arg Leu Cys Asp Glu Gly His Gly
 100 105 110
 Leu Glu Val Glu Ile Asn Cys Thr Arg Thr Gln Asn Thr Lys Cys Arg
 115 120 125
 Cys Lys Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp
 130 135 140
 Pro Cys Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr
 145 150 155 160
 Ser Asn Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn Leu Gly Trp
 165 170 175
 Leu Cys Leu Leu Leu Leu Pro Ile Pro Leu Ile Val Trp Val Lys Arg
 180 185 190
 Lys Glu Val Gln Lys Thr Cys Arg Lys His Arg Lys Glu Asn Gln Gly
 195 200 205
 Ser His Glu Ser Pro Thr Leu Asn Pro Glu Thr Val Ala Ile Asn Leu
 210 215 220
 Ser Asp Val Asp Leu Ser Lys Tyr Ile Thr Thr Ile Ala Gly Val Met
 225 230 235 240
 Thr Leu Ser Gln Val Lys Gly Phe Val Arg Lys Asn Gly Val Asn Glu
 245 250 255
 Ala Lys Ile Asp Glu Ile Lys Asn Asp Asn Val Gln Asp Thr Ala Glu
 260 265 270
 Gln Lys Val Gln Leu Leu Arg Asn Trp His Gln Leu His Gly Lys Lys
 275 280 285
 Glu Ala Tyr Asp Thr Leu Ile Lys Asp Leu Lys Lys Ala Asn Leu Cys
 290 295 300
 Thr Leu Ala Glu Lys Ile Gln Thr Ile Ile Leu Lys Asp Ile Thr Ser
 305 310 315 320
 Asp Ser Glu Asn Ser Asn Phe Arg Asn Glu Ile Gln Ser Leu Val
 325 330 335

<210> 10
 <211> 260
 <212> PRT
 <213> Homo sapiens

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<400> 10
 Met Ala Arg Pro His Pro Trp Trp Leu Cys Val Leu Gly Thr Leu Val
 1 5 10 15
 Gly Leu Ser Ala Thr Pro Ala Pro Lys Ser Cys Pro Glu Arg His Tyr
 20 25 30
 Trp Ala Gln Gly Lys Leu Cys Cys Gln Met Cys Glu Pro Gly Thr Phe
 35 40 45
 Leu Val Lys Asp Cys Asp Gln His Arg Lys Ala Ala Gln Cys Asp Pro
 50 55 60
 Cys Ile Pro Gly Val Ser Phe Ser Pro Asp His His Thr Arg Pro His
 65 70 75 80
 Cys Glu Ser Cys Arg His Cys Asn Ser Gly Leu Leu Val Arg Asn Cys
 85 90 95
 Thr Ile Thr Ala Asn Ala Glu Cys Ala Cys Arg Asn Gly Trp Gln Cys
 100 105 110
 Arg Asp Lys Glu Cys Thr Glu Cys Asp Pro Leu Pro Asn Pro Ser Leu
 115 120 125
 Thr Ala Arg Ser Ser Gln Ala Leu Ser Pro His Pro Gln Pro Thr His
 130 135 140
 Leu Pro Tyr Val Ser Glu Met Leu Glu Ala Arg Thr Ala Gly His Met
 145 150 155 160
 Gln Thr Leu Ala Asp Phe Arg Gln Leu Pro Ala Arg Thr Leu Ser Thr
 165 170 175
 His Trp Pro Pro Gln Arg Ser Leu Cys Ser Ser Asp Phe Ile Arg Ile
 180 185 190
 Leu Val Ile Phe Ser Gly Met Phe Leu Val Phe Thr Leu Ala Gly Ala
 195 200 205
 Leu Phe Leu His Gln Arg Arg Lys Tyr Arg Ser Asn Lys Gly Glu Ser
 210 215 220
 Pro Val Glu Pro Ala Glu Pro Cys Arg Tyr Ser Cys Pro Arg Glu Glu
 225 230 235 240
 Glu Gly Ser Thr Ile Pro Ile Gln Glu Asp Tyr Arg Lys Pro Glu Pro
 245 250 255
 Ala Cys Ser Pro
 260

 <210> 11
 <211> 595
 <212> PRT
 <213> Homo sapiens

 <400> 11

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035234

Met 1	Arg	Val	Leu	Leu 5	Ala	Ala	Leu	Gly	Leu 10	Leu	Phe	Leu	Gly	Ala 15	Leu
Arg	Ala	Phe	Pro 20	Gln	Asp	Arg	Pro	Phe 25	Glu	Asp	Thr	Cys	His 30	Gly	Asn
Pro	Ser	His 35	Tyr	Tyr	Asp	Lys	Ala 40	Val	Arg	Arg	Cys	Cys 45	Tyr	Arg	Cys
Pro	Met 50	Gly	Leu	Phe	Pro	Thr 55	Gln	Gln	Cys	Pro	Gln 60	Arg	Pro	Thr	Asn
Cys 65	Arg	Lys	Gln	Cys	Glu 70	Pro	Asp	Tyr	Tyr 75	Leu	Asp	Glu	Ala	Asp	Arg 80
Cys	Thr	Ala	Cys	Val 85	Thr	Cys	Ser	Arg	Asp 90	Asp	Leu	Val	Glu	Lys 95	Thr
Pro	Cys	Ala	Trp 100	Asn	Ser	Ser	Arg	Val 105	Cys	Glu	Cys	Arg	Pro 110	Gly	Met
Phe	Cys	Ser 115	Thr	Ser	Ala	Val	Asn 120	Ser	Cys	Ala	Arg	Cys 125	Phe	Phe	His
Ser	Val 130	Cys	Pro	Ala	Gly	Met 135	Ile	Val	Lys	Phe 140	Pro	Gly	Thr	Ala	Gln
Lys 145	Asn	Thr	Val	Cys	Glu 150	Pro	Ala	Ser	Pro	Gly 155	Val	Ser	Pro	Ala	Cys 160
Ala	Ser	Pro	Glu	Asn 165	Cys	Lys	Glu	Pro	Ser 170	Ser	Gly	Thr	Ile	Pro 175	Gln
Ala	Lys	Pro 180	Thr	Pro	Val	Ser	Pro	Ala 185	Thr	Ser	Ser	Ala	Ser 190	Thr	Met
Pro	Val 195	Arg	Gly	Gly	Thr	Arg	Leu 200	Ala	Gln	Glu	Ala	Ala 205	Ser	Lys	Leu
Thr 210	Arg	Ala	Pro	Asp	Ser	Pro 215	Ser	Ser	Val	Gly 220	Arg	Pro	Ser	Ser	Asp
Pro 225	Gly	Leu	Ser	Pro	Thr 230	Gln	Pro	Cys	Pro	Glu 235	Gly	Ser	Gly	Asp	Cys 240
Arg	Lys	Gln	Cys	Glu 245	Pro	Asp	Tyr	Tyr	Leu 250	Asp	Glu	Ala	Gly	Arg 255	Cys
Thr	Ala	Cys 260	Val	Ser	Cys	Ser	Arg	Asp 265	Asp	Leu	Val	Glu	Lys 270	Thr	Pro
Cys	Ala	Trp 275	Asn	Ser	Ser	Arg	Thr 280	Cys	Glu	Cys	Arg	Pro 285	Gly	Met	Ile
Cys	Ala 290	Thr	Ser	Ala	Thr	Asn 295	Ser	Cys	Ala	Arg	Cys 300	Val	Pro	Tyr	Pro
Ile 305	Cys	Ala	Ala	Glu	Thr 310	Val	Thr	Lys	Pro	Gln 315	Asp	Met	Ala	Glu	Lys 320

Asp Thr Thr Phe Glu Ala Pro Pro Leu Gly Thr Gln Pro Asp Cys Asn
 325 330 335
 Pro Thr Pro Glu Asn Gly Glu Ala Pro Ala Ser Thr Ser Pro Thr Gln
 340 345 350
 Ser Leu Leu Val Asp Ser Gln Ala Ser Lys Thr Leu Pro Ile Pro Thr
 355 360 365
 Ser Ala Pro Val Ala Leu Ser Ser Thr Gly Lys Pro Val Leu Asp Ala
 370 375 380
 Gly Pro Val Leu Phe Trp Val Ile Leu Val Leu Val Val Val Gly
 385 390 395 400
 Ser Ser Ala Phe Leu Leu Cys His Arg Arg Ala Cys Arg Lys Arg Ile
 405 410 415
 Arg Gln Lys Leu His Leu Cys Tyr Pro Val Gln Thr Ser Gln Pro Lys
 420 425 430
 Leu Glu Leu Val Asp Ser Arg Pro Arg Arg Ser Ser Thr Gln Leu Arg
 435 440 445
 Ser Gly Ala Ser Val Thr Glu Pro Val Ala Glu Glu Arg Gly Leu Met
 450 455 460
 Ser Gln Pro Leu Met Glu Thr Cys His Ser Val Gly Ala Ala Tyr Leu
 465 470 475 480
 Glu Ser Leu Pro Leu Gln Asp Ala Ser Pro Ala Gly Gly Pro Ser Ser
 485 490 495
 Pro Arg Asp Leu Pro Glu Pro Arg Val Ser Thr Glu His Thr Asn Asn
 500 505 510
 Lys Ile Glu Lys Ile Tyr Ile Met Lys Ala Asp Thr Val Ile Val Gly
 515 520 525
 Thr Val Lys Ala Glu Leu Pro Glu Gly Arg Gly Leu Ala Gly Pro Ala
 530 535 540
 Glu Pro Glu Leu Glu Glu Glu Leu Glu Ala Asp His Thr Pro His Tyr
 545 550 555 560
 Pro Glu Gln Glu Thr Glu Pro Pro Leu Gly Ser Cys Ser Asp Val Met
 565 570 575
 Leu Ser Val Glu Glu Glu Gly Lys Glu Asp Pro Leu Pro Thr Ala Ala
 580 585 590
 Ser Gly Lys
 595

<210> 12
 <211> 277
 <212> PRT
 <213> Homo sapiens

<400> 12
 Met Val Arg Leu Pro Leu Gln Cys Val Leu Trp Gly Cys Leu Leu Thr
 1 5 10 15
 Ala Val His Pro Glu Pro Pro Thr Ala Cys Arg Glu Lys Gln Tyr Leu
 20 25 30
 Ile Asn Ser Gln Cys Cys Ser Leu Cys Gln Pro Gly Gln Lys Leu Val
 35 40 45
 Ser Asp Cys Thr Glu Phe Thr Glu Thr Glu Cys Leu Pro Cys Gly Glu
 50 55 60
 Ser Glu Phe Leu Asp Thr Trp Asn Arg Glu Thr His Cys His Gln His
 65 70 75 80
 Lys Tyr Cys Asp Pro Asn Leu Gly Leu Arg Val Gln Gln Lys Gly Thr
 85 90 95
 Ser Glu Thr Asp Thr Ile Cys Thr Cys Glu Glu Gly Trp His Cys Thr
 100 105 110
 Ser Glu Ala Cys Glu Ser Cys Val Leu His Arg Ser Cys Ser Pro Gly
 115 120 125
 Phe Gly Val Lys Gln Ile Ala Thr Gly Val Ser Asp Thr Ile Cys Glu
 130 135 140
 Pro Cys Pro Val Gly Phe Phe Ser Asn Val Ser Ser Ala Phe Glu Lys
 145 150 155 160
 Cys His Pro Trp Thr Ser Cys Glu Thr Lys Asp Leu Val Val Gln Gln
 165 170 175
 Ala Gly Thr Asn Lys Thr Asp Val Val Cys Gly Pro Gln Asp Arg Leu
 180 185 190
 Arg Ala Leu Val Val Ile Pro Ile Ile Phe Gly Ile Leu Phe Ala Ile
 195 200 205
 Leu Leu Val Leu Val Phe Ile Lys Lys Val Ala Lys Lys Pro Thr Asn
 210 215 220
 Lys Ala Pro His Pro Lys Gln Glu Pro Gln Glu Ile Asn Phe Pro Asp
 225 230 235 240
 Asp Leu Pro Gly Ser Asn Thr Ala Ala Pro Val Gln Glu Thr Leu His
 245 250 255
 Gly Cys Gln Pro Val Thr Gln Glu Asp Gly Lys Glu Ser Arg Ile Ser
 260 265 270
 Val Gln Glu Arg Gln
 275

<210> 13
 <211> 255
 <212> PRT
 <213> Homo sapiens

090327.084401

Met Gly Asn Ser Cys Tyr Asn Ile Val Ala Thr Leu Leu Leu Val Leu
1 5 10 15

Asn Phe Glu Arg Thr Arg Ser Leu Gln Asp Pro Cys Ser Asn Cys Pro
20 25 30

Ala Gly Thr Phe Cys Asp Asn Asn Arg Asn Gln Ile Cys Ser Pro Cys
35 40 45

Pro Pro Asn Ser Phe Ser Ser Ala Gly Gly Gln Arg Thr Cys Asp Ile
50 55 60

Cys Arg Gln Cys Lys Gly Val Phe Arg Thr Arg Lys Glu Cys Ser Ser
65 70 75 80

Thr Ser Asn Ala Glu Cys Asp Cys Thr Pro Gly Phe His Cys Leu Gly
85 90 95

Ala Gly Cys Ser Met Cys Glu Gln Asp Cys Lys Gln Gly Gln Glu Leu
100 105 110

Thr Lys Lys Gly Cys Lys Asp Cys Cys Phe Gly Thr Phe Asn Asp Gln
115 120 125

Lys Arg Gly Ile Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Lys
130 135 140

Ser Val Leu Val Asn Gly Thr Lys Glu Arg Asp Val Val Cys Gly Pro
145 150 155 160

Ser Pro Ala Asp Leu Ser Pro Gly Ala Ser Ser Val Thr Pro Pro Ala
165 170 175

Pro Ala Arg Glu Pro Gly His Ser Pro Gln Ile Ile Ser Phe Phe Leu
180 185 190

Ala Leu Thr Ser Thr Ala Leu Leu Phe Leu Leu Phe Phe Leu Thr Leu
195 200 205

Arg Phe Ser Val Val Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe
210 215 220

Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly
225 230 235 240

Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu
245 250 255

<211> 277

<213> Homo sapiens

Met Cys Val Gly Ala Arg Arg Leu Gly Arg Gly Pro Cys Ala Ala Leu
1 5 10 15

19

Leu Leu Leu Gly Leu Gly Leu Ser Thr Val Thr Gly Leu His Cys Val
 20 25 30
 Gly Asp Thr Tyr Pro Ser Asn Asp Arg Cys Cys His Glu Cys Arg Pro
 35 40 45
 Gly Asn Gly Met Val Ser Arg Cys Ser Arg Ser Gln Asn Thr Val Cys
 50 55 60
 Arg Pro Cys Gly Pro Gly Phe Tyr Asn Asp Val Val Ser Ser Lys Pro
 65 70 75 80
 Cys Lys Pro Cys Thr Trp Cys Asn Leu Arg Ser Gly Ser Glu Arg Lys
 85 90 95
 Gln Leu Cys Thr Ala Thr Gln Asp Thr Val Cys Arg Cys Arg Ala Gly
 100 105 110
 Thr Gln Pro Leu Asp Ser Tyr Lys Pro Gly Val Asp Cys Ala Pro Cys
 115 120 125
 Pro Pro Gly His Phe Ser Pro Gly Asp Asn Gln Ala Cys Lys Pro Trp
 130 135 140
 Thr Asn Cys Thr Leu Ala Gly Lys His Thr Leu Gln Pro Ala Ser Asn
 145 150 155 160
 Ser Ser Asp Ala Ile Cys Glu Asp Arg Asp Pro Pro Ala Thr Gln Pro
 165 170 175
 Gln Glu Thr Gln Gly Pro Pro Ala Arg Pro Ile Thr Val Gln Pro Thr
 180 185 190
 Glu Ala Trp Pro Arg Thr Ser Gln Gly Pro Ser Thr Arg Pro Val Glu
 195 200 205
 Val Pro Gly Gly Arg Ala Val Ala Ala Ile Leu Gly Leu Gly Leu Val
 210 215 220
 Leu Gly Leu Leu Gly Pro Leu Ala Ile Leu Leu Ala Leu Tyr Leu Leu
 225 230 235 240
 Arg Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly
 245 250 255
 Gly Ser Phe Arg Thr Pro Ile Gln Glu Gln Ala Asp Ala His Ser
 260 265 270
 Thr Leu Ala Lys Ile
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<210> 15

<211> 349

<212> PRT

<213> Homo sapiens

<400> 15

Met Lys Ser Val Leu Tyr Leu Tyr Ile Leu Phe Leu Ser Cys Ile Ile
 1 5 10 15

00335727.002401

Ile Asn Gly Arg Asp Ala Ala Pro Tyr Thr Pro Pro Asn Gly Lys Cys
 20 25 30
 Lys Asp Thr Glu Tyr Lys Arg His Asn Leu Cys Cys Leu Ser Cys Pro
 35 40 45
 Pro Gly Thr Tyr Ala Ser Arg Leu Cys Asp Ser Lys Thr Asn Thr Gln
 50 55 60
 Cys Thr Pro Cys Gly Ser Gly Thr Phe Thr Ser Arg Asn Asn His Leu
 65 70 75 80
 Pro Ala Cys Leu Ser Cys Asn Gly Arg Cys Asn Ser Asn Gln Val Glu
 85 90 95
 Thr Arg Ser Cys Asn Thr Thr His Asn Arg Ile Cys Glu Cys Ser Pro
 100 105 110
 Gly Tyr Tyr Cys Leu Leu Lys Gly Ser Ser Gly Cys Lys Ala Cys Val
 115 120 125
 Ser Gln Thr Lys Cys Gly Ile Gly Tyr Gly Val Ser Gly His Thr Ser
 130 135 140
 Val Gly Asp Val Ile Cys Ser Pro Cys Gly Phe Gly Thr Tyr Ser His
 145 150 155 160
 Thr Val Ser Ser Ala Asp Lys Cys Glu Pro Val Pro Asn Asn Thr Phe
 165 170 175
 Asn Tyr Ile Asp Val Glu Ile Thr Leu Tyr Pro Val Asn Asp Thr Ser
 180 185 190
 Cys Thr Arg Thr Thr Thr Thr Gly Leu Ser Glu Ser Ile Leu Thr Ser
 195 200 205
 Glu Leu Thr Ile Thr Met Asn His Thr Asp Cys Asn Pro Val Phe Arg
 210 215 220
 Glu Glu Tyr Phe Ser Val Leu Asn Lys Val Ala Thr Ser Gly Phe Phe
 225 230 235 240
 Thr Gly Glu Asn Arg Tyr Gln Asn Ile Ser Lys Val Cys Thr Leu Asn
 245 250 255
 Phe Glu Ile Lys Cys Asn Asn Lys Gly Ser Ser Phe Lys Gln Leu Thr
 260 265 270
 Lys Ala Lys Asn Asp Asp Gly Met Met Ser His Ser Glu Thr Val Thr
 275 280 285
 Leu Ala Gly Asp Cys Leu Ser Ser Val Asp Ile Tyr Ile Leu Tyr Ser
 290 295 300
 Asn Thr Asn Ala Gln Asp Tyr Glu Thr Asp Thr Ile Ser Tyr Arg Val
 305 310 315 320
 Gly Asn Val Leu Asp Asp Ser His Met Pro Gly Ser Cys Asn Ile
 325 330 335

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<210> 16
<211> 355
<212> PRT
<213> Homo sapiens
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Asn Ser Asp Ile Thr Pro His Glu Pro Ser Asn Gly Lys Cys Lys Asp
20 25 30

Asn Glu Tyr Lys Arg His His Leu Cys Cys Leu Ser Cys Pro Pro Gly
35 40 45

Thr Tyr Ala Ser Arg Leu Cys Asp Ser Lys Thr Asn Thr Asn Thr Gln
50 55 60

Cys Thr Pro Cys Ala Ser Asp Thr Phe Thr Ser Arg Asn Asn His Leu
65 70 75 80

Pro Ala Cys Leu Ser Cys Asn Gly Arg Cys Asp Ser Asn Gln Val Glu
85 90 95

Thr Arg Ser Cys Asn Thr Thr His Asn Arg Ile Cys Asp Cys Ala Pro
100 105 110

Gly Tyr Tyr Cys Phe Leu Lys Gly Ser Ser Gly Cys Lys Ala Cys Val
115 120 125

Ser Gln Thr Lys Cys Gly Ile Gly Tyr Gly Val Ser Gly His Thr Pro
130 135 140

Thr Gly Asp Val Val Cys Ser Pro Cys Gly Leu Gly Thr Tyr Ser His
145 150 155 160

Thr Val Ser Ser Val Asp Lys Cys Glu Pro Val Pro Ser Asn Thr Phe
165 170 175

Asn Tyr Ile Asp Val Glu Ile Asn Leu Tyr Pro Val Asn Asp Thr Ser
180 185 190

Cys Thr Arg Thr Thr Thr Thr Gly Leu Ser Glu Ser Ile Ser Thr Ser
195 200 205

Glu Leu Thr Ile Thr Met Asn His Lys Asp Cys Asp Pro Val Phe Arg
210 215 220

Asn Gly Tyr Phe Ser Val Leu Asn Glu Val Ala Thr Ser Gly Phe Phe
225 230 235 240

Thr Gly Gln Asn Arg Tyr Gln Asn Ile Ser Lys Val Cys Thr Leu Asn
245 250 255

Phe Glu Ile Lys Cys Asn Asn Lys Asp Ser Tyr Ser Ser Ser Lys Gln

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<210> 17
<211> 499
<212> DNA
<213> Homo sapiens

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<222> (20)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (41)
<223> n equals a, t, g, or c

<220>
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<223> n equals a, t, g, or c

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<220>
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<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (207)
<223> n equals a, t, g, or c
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<223> n equals a, t, g, or c
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 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (446)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (460)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (466)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (474)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (482)..(484)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (486)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (496)
 <223> n equals a, t, g, or c

<400> 17
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 tgctgcgggt gccggctgta cgcggagtgg cagaaacacn nacntacccc tggcgggacg 180
 nagagacagg ggagcggctg gtgtntnccc antgcccccc aggcaccttt ntgcacggcg 240
 cgtgccgncg agacagcccc acgacgtgtg gcccgtnccc accgcgccac tacacgcatt 300
 ctggaactac ctggagcgct gncgttactn caacgtccct tgcggggagc gtnaggagga 360
 ggacaggggt tncacagcna accacaaccg nggnttaccg tngccgnacc ggtttcttcg 420
 nggcaagtgt gtttttnttt tggagnaagc attcgtgttn caattnattg acgnagtgat 480

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tnnnncgagg aaactnaaa

499

<210> 18
<211> 191
<212> DNA
<213> Homo sapiens

<220>
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<222> (42)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (106)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (125)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (188)
<223> n equals a, t, g, or c

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ctgtgcacca gctgcaactgg ctccccctc agcaccaggg taccangagc tgaggagtgt 120
gagcgtgccg tcatcgactt ttggcttctc caggacatct ccatcaagag gctgcagcgg 180
ctgctcangc c 191

<210> 19
<211> 26
<212> DNA
<213> Artificial sequence

<220>
<223> TNFR-6 alpha forward primer containing Nco I restriction site

<400> 19
cgcccatggc agaaacaccc acctac 26

<210> 20
<211> 26
<212> DNA
<213> Artificial sequence

<220>
<223> TNFR-6 alpha reverse primer containing Hind III restriction site

<400> 20
cgcaagcttc tctttcagtg caagtg 26

<210> 21

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<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> TNFR-6 beta reverse primer containing Hind III restriction site

<400> 21
cgcaagcttc tcctcagctc ctgcagtg                28

<210> 22
<211> 36
<212> DNA
<213> Artificial sequence

<220>
<223> TNFR-6 alpha and TNFR-6 beta forward primer containing Bam HI
restriction site

<400> 22
cgcggtatccg ccattcatgag ggcgtggagg ggccag                36

<210> 23
<211> 26
<212> DNA
<213> Artificial sequence

<220>
<223> TNFR-6 alpha reverse primer containing Asp 718 restriction site

<400> 23
cgcggtaccc tctttcagtg caagtg                26

<210> 24
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> TNFR-6 beta reverse primer containing Asp 718 restriction site

<400> 24
cgcggtaccc tcctcagctc ctgcagtg                28

<210> 25
<211> 33
<212> DNA
<213> Artificial sequence

<220>
<223> TNFR-6 alpha forward primer

<400> 25
agaccaagc ttctgtgtcc agcaaggacc atg                33

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<210> 26
 <211> 50
 <212> DNA
 <213> Artificial sequence

<220>
 <223> TNFR-6 alpha reverse primer

<400> 26
 agacgggcatc cttagtgggtg gtggtgggtgg tgcacaggga ggaagcgctc 50

<210> 27
 <211> 733
 <212> DNA
 <213> Homo sapiens

<400> 27
 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 aatttcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga 120
 tctccccggac tcttgagggt acatgcgtgg tgggtggacgt aagccacgaa gacctgagg 180
 tcaagttcaa ttggtacgtg gacggcggtg aggtgcataa tgccaagaca aagccgctgg 240
 aggagcagta caacagcagc taccgtgtgg tcagcgtcct caccgtctct caccaggact 300
 gggtgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
 agaaaaacat ctccaaagcc aaagggcagc ccgagaaacc acaggtgtac accctgcccc 420
 catccccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
 atccaagcga ctgcgcgtg gagtgggaga gcaatgggca gccggagaaac aactacaaga 540
 ccacgcctcc cgtgctggac tccgacggct cttcttctct ctacagcaag ctaccgtgg 600
 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
 acaaccacta cagcagaag agcctctccc tgtctcggg taaatgagtg cgacggccgc 720
 gactctagag gat 733

<210> 28
 <211> 1796
 <212> DNA
 <213> Homo sapiens

<220>
 <221> intron
 <222> 425-560

<220>
 <221> intron
 <222> 756-1512

<400> 28
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 gcagagacag gggagcggtt ggtgtgcgcc cagtgccccc caggcacctt tgtgcagcgg 180
 ccgtgcggcc gagacagccc cagcagctgt ggcccggtgc caccgcgcca ctacacgcag 240
 ttctggaact acctrgagcg ctgccgctac tgcaacgtcc tctgcgggga gctgaggag 300
 gaggcacggg cttgccacgc caccacaac cgtgcctgcc gctgcgcgac cggctctctc 360
 gcgcacgctg gttctgtctt ggagcacgca tcgtgtccac ctggtgcccg cgtgattgcc 420
 ccgggtgaga gctggggcag gggagggggc ccaggagtg gtggccggag gttgtggcag 480
 ggtcaggttg ctgggtccag ccttgacccc tgagctagga caccagttcc cctgacctcg 540
 ttcttccctc ctggctgcag gcacccccag ccagaacacg cagtgccagc cgtgcccccc 600
 aggcaccttc tcagccagca gctccagctc agagcagtg cagccccacc gcaactgcac 660
 ggccctgggc ctggccctca atgtgccagg ctcttctccc catgacaccc tgtgccacag 720
 ctgcactggc ttccccctca gcaccagggt accaggtgag ccagaggcct gagggggcag 780
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<210> 29
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<212> PRT
<213> Homo Sapiens
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<213> Artificial Sequence
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  1              5              10              15
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Arg Thr Asp Val Leu Arg Leu Val Leu Tyr Leu Thr Phe Leu Gly Ala
 20 25 30
 Pro Cys Tyr Ala Pro Ala Leu Pro Ser Cys Lys Glu Asp Glu Tyr Pro
 35 40 45
 Val Gly Ser Glu Cys Cys Pro Lys Cys Ser Pro Gly Tyr Arg Val Lys
 50 55 60
 Glu Ala Cys Gly Glu Leu Thr Gly Thr Val Cys Glu Pro Cys Pro Pro
 65 70 75 80
 Gly Thr Tyr Ile Ala His Leu Asn Gly Leu Ser Lys Cys Leu Gln Cys
 85 90 95
 Gln Met Cys Asp Pro Ala Met Gly Leu Arg Ala Ser Arg Asn Cys Ser
 100 105 110
 Arg Thr Glu Asn Ala Val Cys Gly Cys Ser Pro Gly His Phe Cys Ile
 115 120 125
 Val Gln Asp Gly Asp His Cys Ala Ala Cys Arg Ala Tyr Ala Thr Ser
 130 135 140
 Ser Pro Gly Gln Arg Val Gln Lys Gly Gly Thr Glu Ser Gln Asp Thr
 145 150 155 160
 Leu Cys Gln Asn Cys Pro Pro Gly Thr Phe Ser Pro Asn Gly Thr Leu
 165 170 175
 Glu Glu Cys Gln His Gln Thr Lys Cys Ser Trp Leu Val Thr Lys Ala
 180 185 190
 Gly Ala Gly Thr Ser Ser Ser His Trp Val Trp Trp Phe Leu Ser Gly
 195 200 205
 Ser Leu Val Ile Val Ile Val Cys Ser Thr Val Gly Leu Ile Ile Cys
 210 215 220
 Val Lys Arg Arg Lys Pro Arg Gly Asp Val Val Lys Val Ile Val Ser
 225 230 235 240
 Val Gln Arg Lys Arg Gln Glu Ala Glu Gly Glu Ala Thr Val Ile Glu
 245 250 255
 Ala Leu Gln Ala Pro Pro Asp Val Thr Thr Val Ala Val Glu Glu Thr
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 Ile Pro Ser Phe Thr Gly Arg Ser Pro Asn His
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<212> DNA

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<400> 32

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<220>
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<210> 34
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<223> Forward TNF-gamma-beta primer useful for amplifying nucleotides encoding amino acids 86-114 of TNF-gamma-beta protein Mammalian synthetic TNFR-6 alpha

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<211> 24
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<223> Reverse TNF-gamma-beta primer useful for amplifying nucleotides encoding amino acids 86-114 of TNF-gamma-beta protein

<400> 35
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<210> 36
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<212> DNA
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<220>
<223> Probe that hybridizes to TNF-gamma-beta cDNA

<400> 36
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<210> 37
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<212> DNA
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<220>
<223> Forward TNF-gamma-alpha primer useful for amplifying nucleotides encoding amino acids 7-37 of TNF-gamma-alpha protein

<400> 37
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<210> 38
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<212> DNA
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<210> 39
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